L Number	Hits	Search Text	DB	Time stamp
1	225	381/$.ccls. and midrange and (tweeter woofer)	USPAT; US-PGPUB	2003/05/03 23:59
7	5	((381/$.ccls. and midrange and (tweeter woofer)) and notch) and notch adj filter	USPAT; US-PGPUB	2003/05/04 00:00
4	17	(381/$.ccls. and midrange and (tweeter woofer)) and notch	USPAT; US-PGPUB	2003/05/04 01:04
10	2289	notch and "band pass"	USPAT; US-PGPUB	2003/05/04 01:04
13	753	(notch and "band pass") and notch same "band pass"	USPAT; US-PGPUB	2003/05/04 01:04
16	508	(notch and "band pass") and notch with "band pass"	USPAT; US-PGPUB	2003/05/04 01:05
19	501	((notch and "band pass") and notch with "band pass") and filter	USPAT; US-PGPUB	2003/05/04 01:05
22	293	(((notch and "band pass") and notch with "band pass") and filter) and (notch with "band pass")	USPAT; US-PGPUB	2003/05/04 01:06
25	293	((((notch and "band pass") and notch with "band pass") and filter) and (notch with "band pass")) and (notch with "band pass")	USPAT; US-PGPUB	2003/05/04 01:06
28	293	(((((notch and "band pass") and notch with "band pass") and filter) and (notch with "band pass")) and (notch with "band pass")) near1 filter	USPAT; US-PGPUB	2003/05/04 01:06
31	280	((((notch and "band pass") and notch with "band pass") and filter) and (notch with "band pass")) near3 filter	USPAT; US-PGPUB	2003/05/04 01:07
34	280	(((((notch and "band pass") and notch with "band pass") and filter) and (notch with "band pass")) and (notch with "band pass")) adj filter	USPAT; US-PGPUB	2003/05/04 01:08
37	269	((((((notch and "band pass") and notch with "band pass") and filter) and (notch with "band pass")) adj filter) and notch adj filter) and (notch with "band pass") and (notch adj filter) and (@rlad<=20010822 or @ad<=20010822)	USPAT; US-PGPUB	2003/05/04 01:11
40	97	(((((((notch and "band pass") and notch with "band pass") and filter) and notch with "band pass") adj filter) and notch adj filter) and (notch with "band pass") adj filter) and (audio sound transducer speaker)	USPAT; US-PGPUB	2003/05/04 01:13
43	10	((((((((notch and "band pass") and notch with "band pass") and filter) and notch with "band pass") adj filter) and notch adj filter) and notch adj filter) and (@rlad<=20010822 or @ad<=20010822)) and (audio sound transducer speaker)) and 381/$.ccls.	USPAT; US-PGPUB	2003/05/04 01:38
46	548	"band reject filter"	USPAT; US-PGPUB	2003/05/04 01:27
49	217	"band reject filter" and (sound audio transducer speaker)	USPAT; US-PGPUB	2003/05/04 01:30
52	214	381/$.ccls. and (notch "band reject") adj filter	USPAT; US-PGPUB	2003/05/04 01:44
55	105	(381/$.ccls. and (notch "band reject") adj filter) and (resistor capacitor inductor)	USPAT; US-PGPUB	2003/05/04 01:59
58	3	381/$.ccls. and ((notch "band reject") adj filter) same coil	USPAT; US-PGPUB	2003/05/04 01:45
61	17412	coil same filter	USPAT; US-PGPUB	2003/05/04 01:59
64	814	coil same filter same magnet	USPAT; US-PGPUB	2003/05/04 02:00

#	Results	Query	Databases	Date
67	116	(coil same filter same magnet) and filter same resistor and (capacitor or inductor)	USPAT; US-PGPUB	2003/05/04 02:01
70	6	((coil same filter same magnet) and filter same resistor and (capacitor or inductor)) and 381/$.ccls.	USPAT; US-PGPUB	2003/05/04 02:04
73	22240	coil same resistor and (capacitor or inductor)	USPAT; US-PGPUB	2003/05/04 02:05
76	541	coil same resistor and (capacitor or inductor) and speaker same coil	USPAT; US-PGPUB	2003/05/04 02:09
79	398	((coil same resistor and (capacitor or inductor)) and speaker same coil) not digital	USPAT; US-PGPUB	2003/05/04 02:10
82	18619	(coil same resistor and (capacitor or inductor)) and resistor with (capacitor or inductor)	USPAT; US-PGPUB	2003/05/04 02:09
85	460	((coil same resistor and (capacitor or inductor)) and resistor with (capacitor or inductor)) and speaker same coil	USPAT; US-PGPUB	2003/05/04 02:09
88	336	(((coil same resistor and (capacitor or inductor)) and resistor with (capacitor or inductor)) and speaker same coil) not digital	USPAT; US-PGPUB	2003/05/04 02:11
91	284	((((coil same resistor and (capacitor or inductor)) and resistor with (capacitor or inductor)) and speaker same coil) not digital) and frequency	USPAT; US-PGPUB	2003/05/04 02:11
94	162	(((((coil same resistor and (capacitor or inductor)) and resistor with (capacitor or inductor)) and speaker same coil) not digital) and frequency same (resistor with (capacitor or inductor))	USPAT; US-PGPUB	2003/05/04 02:28
97	20	speaker and coil same(notch "band reject") adj2 filter	USPAT; US-PGPUB	2003/05/04 02:37
100	46	transducer and coil same(notch "band reject") adj2 filter	USPAT; US-PGPUB	2003/05/04 02:36
103	40	(transducer and coil same(notch "band reject") adj2 filter) not (speaker and coil same(notch "band reject") adj2 filter)	USPAT; US-PGPUB	2003/05/04 02:36
106	189	coil same(notch "band reject") adj2 filter	USPAT; US-PGPUB	2003/05/04 02:42
109	129	(coil same(notch "band reject") adj2 filter) not ((speaker and coil same(notch "band reject") adj2 filter) ((transducer and coil same(notch "band reject") adj2 filter))	USPAT; US-PGPUB	2003/05/04 02:38
112	300	(speaker actuator transducer) same coil and (notch "band reject") adj2 filter	USPAT; US-PGPUB	2003/05/04 02:44
115	234	((speaker actuator transducer) same coil and (notch "band reject") adj2 filter) not ((speaker and coil same(notch "band reject") adj2 filter) ((transducer and coil same(notch "band reject") adj2 filter)) ((coil same(notch "band reject") adj2 filter) not (speaker and coil same(notch "band reject") adj2 filter) (((transducer and coil same(notch "band reject") adj2 filter) not (speaker and coil same(notch "band reject") adj2 filter))))	USPAT; US-PGPUB	2003/05/04 02:58
-	2713	((381/396,398,400,401,402,403) or (455/90,567)).CCLS.	USPAT; US-PGPUB	2003/05/03 19:40
-	634	(((381/396,398,400,401,402,403) or (455/90,567)).CCLS.) and (filter notch tactile resistor inductor capacitor)	USPAT; US-PGPUB	2003/04/27 23:09
-	551	((381/396,398,400,401,402,403) or (455/90,567)).CCLS.	EPO; JPO; DERWENT	2003/04/27 22:49

Hits	Search Query	DBs	Time Stamp
29	(((381/396,398,400,401,402,403) or (455/90,567)).CCLS.) and (filter notch tactile resistor inductor capacitor)	EPO; JPO; DERWENT	2003/04/27 22:50
124	((((381/396,398,400,401,402,403) or (455/90,567)).CCLS.) and (filter notch tactile resistor inductor capacitor)) and notch	USPAT; US-PGPUB	2003/04/27 22:54
2	((((381/396,398,400,401,402,403) or (455/90,567)).CCLS.) and (notch adj3 filter)	USPAT; US-PGPUB	2003/04/27 22:54
156	((((381/396,398,400,401,402,403) or (455/90,567)).CCLS.) and (notch bandpass)	USPAT; US-PGPUB	2003/04/27 23:23
39	((((381/396,398,400,401,402,403) or (455/90,567)).CCLS.) and (band adj pass)	USPAT; US-PGPUB	2003/04/27 23:23
30	(((((381/396,398,400,401,402,403) or (455/90,567)).CCLS.) and (filter notch tactile resistor inductor capacitor)) and (band adj pass)) not (((((381/396,398,400,401,402,403)).CCLS.) and (filter notch tactile resistor inductor capacitor)) and (notch bandpass))	USPAT; US-PGPUB	2003/04/27 23:33
1	"6466682"	USPAT; US-PGPUB	2003/04/27 23:35
568	samsung.asn. and $4speaker	USPAT; US-PGPUB	2003/04/27 23:35
59	(samsung.asn. and $4speaker) and coil	USPAT; US-PGPUB	2003/04/27 23:37
101	381/$.ccls. and ((notch bandpass "band pass") same coil)	USPAT; US-PGPUB	2003/04/27 23:40
1	381/$.ccls. and ((("low pass" lowpass) and ("high pass" and highpass)) same coil)	USPAT; US-PGPUB	2003/04/27 23:45
38	381/$.ccls. and (((notch bandpass "band pass") adj1 filter) same coil)	USPAT; US-PGPUB	2003/04/27 23:45
1	455/$.ccls. and ((("low pass" lowpass) and ("high pass" and highpass)) same coil)	USPAT; US-PGPUB	2003/04/27 23:45
0	455/$.ccls. and ((("low pass" lowpass) and ("high pass" and highpass)) same coil) and $4speaker	USPAT; US-PGPUB	2003/04/27 23:48
0	340/$.ccls. and ((("low pass" lowpass) and ("high pass" and highpass)) same coil) and $4speaker	USPAT; US-PGPUB	2003/04/27 23:45
151	455/$.ccls. and (((notch bandpass "band pass") adj1 filter) same coil)	USPAT; US-PGPUB	2003/04/27 23:46
33	340/$.ccls. and (((notch bandpass "band pass") adj1 filter) same coil) and $4speaker	USPAT; US-PGPUB	2003/04/27 23:46
35	(455/$.ccls. and (((notch bandpass "band pass") adj1 filter) same coil)) and $4speaker	USPAT; US-PGPUB	2003/04/27 23:46
1729	$4speaker and ((notch bandpass "band pass" lowpass "low pass" highpass "high pass") adj2 filter) and coil	USPAT; US-PGPUB	2003/04/27 23:49
11	(("5829319") or ("6211775") or ("9849460")).PN.	US-PGPUB; EPO; JPO; DERWENT	2003/04/27 23:50
150	$4speaker same ((notch bandpass "band pass" lowpass "low pass" highpass "high pass") adj2 filter) same coil	USPAT; US-PGPUB	2003/04/28 00:09
10	"4582163"	USPAT; US-PGPUB	2003/04/28 00:10
10	"4582163"	USPAT; US-PGPUB	2003/04/28 00:10
8	"4300022"	USPAT; US-PGPUB	2003/04/28 00:10

Hits	Search Query	Database	Date/Time
68	(("4582163") or ("43000022") or ("5511132") or ("4504704") or ("2007747") or ("2007748") or ("2007750") or ("2007749") or ("20030044031") or ("3838216") or ("6487300") or ("6466682") or ("20020177419") or ("64666682") or ("6487300") or ("6373958") or ("4520237") or ("43000022") or ("20030036364") or ("5861686") or ("6211775") or ("20020051557") or ("20020061115") or ("20020076068") or ("20020122560") or ("20030044040") or ("20030059079")).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/04/28 00:29
3	6211775.URPN.	USPAT	2003/04/28 00:19
3	(((("4582163") or ("43000022") or ("5511132") or ("4504704") or ("2007747") or ("2007748") or ("2007750") or ("2007749") or ("20030044031") or ("3838216") or ("6487300") or ("6466682") or ("20020177419") or ("64666682") or ("6487300") or ("6373958") or ("4520237") or ("43000022") or ("20030036364") or ("5861686") or ("6211775") or ("20020051557") or ("20020061115") or ("20020076068") or ("20020122560") or ("20030044040") or ("20030059079"))).PN.	USPAT; US-PGPUB	2003/04/28 00:22
3	(((("4582163") or ("43000022") or ("5511132") or ("4504704") or ("2007747") or ("2007748") or ("2007750") or ("2007749") or ("20030044031") or ("3838216") or ("6487300") or ("6466682") or ("20020177419") or ("64666682") or ("6487300") or ("6373958") or ("4520237") or ("43000022") or ("20030036364") or ("5861686") or ("6211775") or ("20020051557") or ("20020061115") or ("20020076068") or ("20020122560") or ("20030044040") or ("20030059079"))).PN. and "vibrating coil".clm.	USPAT; US-PGPUB	2003/04/28 00:30
15	(((("4582163") or ("43000022") or ("5511132") or ("4504704") or ("2007747") or ("2007748") or ("2007750") or ("2007749") or ("20030044031") or ("3838216") or ("6487300") or ("6466682") or ("20020177419") or ("64666682") or ("6487300") or ("6373958") or ("4520237") or ("43000022") or ("20030036364") or ("5861686") or ("6211775") or ("20020051557") or ("20020061115") or ("20020076068") or ("20020122560") or ("20030044040") or ("20030059079"))).PN. and filter	USPAT; US-PGPUB	2003/04/28 00:30
0	("84 and filter").PN.	USPAT; US-PGPUB	2003/04/28 00:29
4	(((("4582163") or ("43000022") or ("5511132") or ("4504704") or ("2007747") or ("2007748") or ("2007750") or ("2007749") or ("20030044031") or ("3838216") or ("6487300") or ("6466682") or ("20020177419") or ("64666682") or ("6487300") or ("6373958") or ("4520237") or ("43000022") or ("20030036364") or ("5861686") or ("6211775") or ("20020051557") or ("20020061115") or ("20020076068") or ("20020122560") or ("20030044040") or ("20030059079"))).PN. and "vibrating coil".clm.	USPAT; US-PGPUB	2003/04/28 00:29
0	(("4582163") or ("43000022") or ("5511132") or ("4504704") or ("2007747") or ("2007748") or ("2007750") or ("2007749") or ("20030044031") or ("3838216") or ("6487300") or ("6466682") or ("20020177419") or ("64666682") or ("6487300") or ("6373958") or ("4520237") or ("43000022") or ("20030036364") or ("5861686") or ("6211775") or ("20020051557") or ("20020061115") or ("20020076068") or ("20020122560") or ("20030044040") or ("20030059079")).PN. and "vibrating coil".clm.	USPAT; US-PGPUB	2003/04/28 00:30
3	6211775.URPN.	USPAT	2003/04/28 00:34
2	("6211775" | "6373956").PN.	USPAT	2003/04/28 00:34
0	200002868.URPN.	USPAT	2003/04/28 00:35
0	20030059079.URPN.	USPAT	2003/04/28 00:35
0	20030036364.URPN.	USPAT	2003/04/28 00:35
0	20020122560.URPN.	USPAT	2003/04/28 00:35
0	6553125.URPN.	USPAT	2003/04/28 00:35
2	6487300.URPN.	USPAT	2003/04/28 00:35
6	("4728934" | "5511132" | "5528697" | "5894263" | "6208237" | "6211775").PN.	USPAT	2003/04/28 00:35
0	6466682.URPN.	USPAT	2003/04/28 00:36
2	("5829319" | "6211775").PN.	USPAT	2003/04/28 00:36
0	6373958.URPN.	USPAT	2003/04/28 00:36
8	("3997724" | "4675907" | "5436622" | "5524061" | "5528697" | "5894263" | "5956622" | "6208237").PN.	USPAT	2003/04/28 00:36
8	5861686.URPN.	USPAT	2003/04/28 00:36

Hits	Search Query	Databases	Date/Time
8	("4240002" | "4391532" | "5172092" | "5467323" | "5517574" | "5546069" | "5682132" | "5747906").PN.	USPAT	2003/04/28 00:36
4	5511132.URPN.	USPAT	2003/04/28 00:37
3	("3629521" | "3916312" | "5125032").PN.	USPAT	2003/04/28 00:37
9	4582163.URPN.	USPAT	2003/04/28 00:37
6	("1917309" | "2007750" | "2866515" | "3930130" | "4190746" | "4359132").PN.	USPAT	2003/04/28 00:38
9	4520237.URPN.	USPAT	2003/04/28 00:38
7	("3133162" | "3138864" | "3430007" | "3453400" | "4143537" | "4158756" | "4376233").PN.	USPAT	2003/04/28 00:38
13	4504704.URPN.	USPAT	2003/04/28 00:38
7	("2007746" | "2007748" | "2007749" | "3055991" | "3838216" | "4201886" | "4335274").PN.	USPAT	2003/04/28 00:39
6	4300022.URPN.	USPAT	2003/04/28 00:39
7	("1822758" | "1969657" | "2194175" | "2860183" | "2925541" | "3196211" | "3542952").PN.	USPAT	2003/04/28 00:39
16	3838216.URPN.	USPAT	2003/04/28 00:39
5	("2007746" | "2007748" | "2318517" | "2727949" | "2832828").PN.	USPAT	2003/04/28 00:40
2	2007750.URPN.	USPAT	2003/04/28 00:40
2	2007749.URPN.	USPAT	2003/04/28 00:40
6	2007748.URPN.	USPAT	2003/04/28 00:40
4	2007747.URPN.	USPAT	2003/04/28 00:41
2	2007750.URPN.	USPAT	2003/04/28 00:41
0	20020122560.URPN.	USPAT	2003/04/28 00:41
2585	speaker and notch	US-PGPUB	2003/04/30 20:31
116	(speaker and notch) and (notch same coil)	US-PGPUB	2003/04/30 20:31
56	((speaker and notch) and (notch same coil)) and (notch with coil)	US-PGPUB	2003/04/30 20:31
13	(((speaker and notch) and (notch same coil)) and (notch with coil)) and diaphragm	US-PGPUB	2003/04/30 20:31
2	"9849460"	USPAT; US-PGPUB	2003/04/30 21:46
8	((("4250637") or ("5172092") or ("5293161") or ("5528697") or ("5630206") or ("5722074") or ("5894263") or ("5936516")).PN.	USPAT; US-PGPUB	2003/04/30 21:48
0	(("0049519") or ("00713334")).PN.	US-PGPUB	2003/04/30 21:48
9	"71334"	EPO; JPO; DERWENT	2003/04/30 21:48
4	"49519"	EPO; JPO; DERWENT	2003/04/30 21:49
2	"20149519"	EPO; JPO; DERWENT	2003/04/30 21:50
5	"149519"	EPO; JPO; DERWENT	2003/04/30 21:50
6	"149519"	USOCR	2003/04/30 21:50
5	"149519"	EPO; JPO; DERWENT; IBM_TDB	2003/04/30 21:50
2	"200149519"	IBM_TDB	2003/04/30 21:51

Hits	Search Query	Databases	Date/Time
6	"22244"	EPO;JPO; DERWENT; IBM_TDB	2003/04/30 21:51
0	"19822244"	EPO;JPO; DERWENT; IBM_TDB	2003/04/30 22:00
0	"1998-22244"	EPO;JPO; DERWENT; IBM_TDB	2003/04/30 21:52
0	"98-22244"	EPO;JPO; DERWENT; IBM_TDB	2003/04/30 21:52
0	"98-22659"	EPO;JPO; DERWENT; IBM_TDB	2003/04/30 21:52
16	"68976"	EPO;JPO; DERWENT; IBM_TDB	2003/04/30 22:01
0	("0068976").PN.	EPO;JPO; DERWENT; US-PGPUB	2003/04/30 22:01
8	"68976"	USPAT; US-PGPUB	2003/04/30 22:00
107402	samsung.asn.	EPO;JPO; DERWENT	2003/04/30 22:01
1255	samsung.asn. and coil	EPO;JPO; DERWENT	2003/04/30 22:02
19	(samsung.asn. and coil) and diaphragm	USPAT; DERWENT	2003/04/30 22:02
2	381/$.ccls. and coil$1 with notch adj filter$1	EPO;JPO; DERWENT	2003/04/30 22:02
3	381/$.ccls. and coil$1 same notch adj filter$1	USPAT; US-PGPUB	2003/05/03 19:54
16	voice adj coil$1 same notch adj filter$1	USPAT; US-PGPUB	2003/05/03 19:45
33	381/$.ccls. and coil$1 and notch adj filter$1	USPAT; US-PGPUB	2003/05/03 19:48
225	381/$.ccls. and midrange and (tweeter woofer)	USPAT; US-PGPUB	2003/05/03 23:59
200	(381/$.ccls. and midrange and (tweeter woofer)) and 381/$.ccls. and midrange and tweeter	USPAT; US-PGPUB	2003/05/03 20:00
96	((381/$.ccls. and midrange and (tweeter woofer)) and midrange and tweeter) and filter	USPAT; US-PGPUB	2003/05/03 20:01
34	(((381/$.ccls. and midrange and (tweeter woofer)) and midrange and tweeter) and filter) and (notch bandpass "band pass" passband "pass band")	USPAT; US-PGPUB	2003/05/03 20:01
20	((((381/$.ccls. and midrange and (tweeter woofer)) and midrange and tweeter) and filter) and (notch bandpass "band pass" passband "pass band")) and ((notch bandpass "band pass" passband "pass band") same midrange)	USPAT; US-PGPUB	2003/05/03 20:36
34	(381/182,184,402).ccls. and midrange and tweeter	USPAT; US-PGPUB	2003/05/03 20:39

24	(381/186).ccls. and midrange and tweeter	USPAT; US-PGPUB	2003/05/03 21:28
200	(381/$.ccls. and midrange and (tweeter woofer)) and midrange and tweeter	USPAT; US-PGPUB	2003/05/03 21:30
45	381/402	USPAT; US-PGPUB	2003/05/03 21:51
6	(("4074070") or ("4180706") or ("6542617") or ("6373958") or ("6259799") or ("2727949")).PN.	USPAT; US-PGPUB	2003/05/03 21:52
1	("4783824").PN.	USPAT; US-PGPUB	2003/05/03 22:02